

Title (en)

METHOD AND DEVICE FOR CONTROLLING INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG EINES VERBRENNUNGSMOTORS

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT DE COMMANDER UN MOTEUR À COMBUSTION INTERNE

Publication

**EP 3633171 B1 20220511 (EN)**

Application

**EP 17910671 A 20170524**

Priority

JP 2017019418 W 20170524

Abstract (en)

[origin: EP3633171A1] A control method for internal combustion engine with a fuel injection valve configured to directly inject fuel into a cylinder and an ignition plug configured to directly spark-ignite the fuel injected from the fuel injection valve includes comparing an actual behavior, which is an actual changing behavior of an engine revolution speed at an engine start, to a reference behavior set in advance, and switching from stratified combustion in which a fuel spray injected from the fuel injection valve and staying around the ignition plug is directly spark-ignited to homogeneous combustion in which a homogeneous air-fuel mixture is formed in a combustion chamber and the fuel is burned and increasing a mechanical compression ratio of the internal combustion engine as compared to the case where the actual behavior and the reference behavior match if the actual behavior is different from the reference behavior.

IPC 8 full level

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CPC (source: EP US)

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